CURRENT VAMAS PROJECTS

Project Number	Project Title
•	TWA 1 - Wear Test Methods
01	Compilation of Wear Test Standards
02	Ball Cratering Wear Testing
03	Wear Debris Characterization Methods and Representation [with TWA 7]
	TWA 2 - Surface Chemical Analysis
02	Development of Calibration Data for the Energy Scales of Auger-electron spectrometers
03	Procedures for Quantitative X-ray Photoelectron Spectroscopy
05	Development of Reference Materials Prepared by Ion Implantation
09	Intercomparison of Auger Electron Intensity Measurements
13	Tests of algorithms for Data Processing in AES - Factor Analysis and Intensity
14b	Tests of Algorithms for Background Subtraction in AES
14c	Tests of algorithms for Quantitative XPS by Peak Shape Analysis
14d	Tests of Algorithms for Angle-resolved XPS
21	Tests of Algorithms for the Analysis of Multicomponent Spectra in XPS
23	Absolute Calibration of XPS Instrument Intensity Scales
30	Development of a Common Data Processing System for AES and XPS
A1	Use of the Infinite Velocity Method for SIMS Quantification
A2	Evaluation of Static Charge Stabilization and Determination Methods in XPS on Non-conducting Samples
A3	Interlaboratory Study of Static SIMS Repeatability and Reproducibility
A4	Evaluation of Multilayer Reference Coatings for Quantitative GDOES Depth Profiling
A5	Interlaboratory Study of the Degradation of Organic Materials in XPS Analysis
A6	Evaluation of Uncertainties in XPS Peak Intensities Associated with Different Techniques & Procedures for Background Subtraction
	TWA 3 – Ceramics for Structural Applications
12	Fracture Toughness by the SEVNB Method
13	High Temperature Flexural Strength
14	Determination of Phase Composition and Percent Crystallinity in Hydroxyapatite
	TWA 5 – Polymer Composites
01	Assessment and Recommendation to ISO on Mode II
02	Measurement of Mechanical Properties for the Fibre-Matrix Interface

	TWA 7 - Biomaterials
01	Evaluation of Cytotoxicity of UHMWPE Wear Debris (with TWA 1)
	TWA 10 – Computerized Materials Data
01	STEP Terminology Review
02	Generic Data-Sharing Platform
	TWA 13 – Low Cycle Fatigue
01	Quantifying Data Uncertainties and Validation of a Code of Practice for the Meas. of Bending in Uniaxial Fatigue Test Pieces
	TWA 15 – Metal Matrix Composites
01	Develop Reliable Tensile Test and Fatigue Test Methods for MMC's at Room & Elevated Temperatures - SiCw/A2009 MMC
02	Develop Reliable Tensile Test and Fatigue Test Methods for MMC's at Room & Elevated Temperatures - SiC/Ti-15-3 MMC
03	Develop Reliable Tensile Test and Fatigue Test Methods for MMC's at Room & Elevated Temperatures - Al 2O3/Al MMC
	TWA 16 – Superconducting Materials
01	Bending Strain Effects on Critical Current in Oxide Superconductors
02	Measurement Method of Critical Temperature in Oxide Superconductors
03	Measurement Methods for Trapped Field and Levitation Force in Bulk Oxide Superconductors
04	Measurement Methods for the Surface Resistance in thin Film Superconductors
05	Measurement Method for the Irreversibility Field in Oxide Superconductors
	TWA 17 – Cryogenic Structural Materials
01	Interlaminar Shear Test on GFRP
02	Mechanical Tests in High Magnetic Field
03	Advanced Fracture Toughness Test
	TWA 20 – Measurement of Residual Stress
01	Measurement of Residual Stress by Neutron Diffraction
	TWA 21 – Mechanical Measurements for Hardmetals
01	Bend Testing of Hardmetals
02	Toughness Tests for Hardmetals
03	Hardness Tests for Hardmetals
	TWA 22 – Mechanical Property Measurements of Thin Films and Coatings
01	Measurement of Hardness and Young's Modulus of Thin Coatings Using Depth Sensing indentation Instruments
02	Adhesion of Thin Coatings

01	TWA 23 – Thermal Properties of Thin Ceramic Films and Coatings Thermal Conductivity of Ceramic Films
01	TWA 24 – Performance Related Properties for Electroceramics Measurement of Piezoelectric Coefficient of Materials of Differing Geometries and Configurations
01	TWA 25 – Creep/Fatigue Crack Growth in Components Creep/Fatigue Crack Growth in Components
01	TWA 27 – Characterization Methods for Ceramic Powders & Green Bodies Determination of Coarse Particle Fraction in Ceramic Powders